

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VENM3542**

**.75HP,1750RPM,3PH,60HZ,56C,3516M,TENV,F1**

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGP667	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35E010	Layout:	35LYE010	Poles:	04	Created Date:	12-03-2007
Base:	N	Eff. Date:	03-28-2018	Leads:	9#18		

Specs			
Catalog Number:	VENM3542	Insulation Class:	F
Enclosure:	TENV	Inverter Code:	Inverter Ready
Frame:	56C	KVA Code:	M
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.750 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3516M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	73
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	1.140 A @ 460.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	2.280 A @ 230.0 V	<b>Shaft Rotation:</b>	Reversible
	2.480 A @ 208.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	B	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

<b>Nameplate NP2116L</b>	
<b>CAT.NO.</b>	VENM3542
<b>SPEC.</b>	35E010P667G1
<b>HP</b>	.75
<b>VOLTS</b>	230/460
<b>AMP</b>	2.28/1.14
<b>RPM</b>	1750
<b>FRAME</b>	56C
<b>HZ</b>	60
<b>PH</b>	3
<b>SER.F.</b>	1.15
<b>CODE</b>	M
<b>DES</b>	B
<b>CL</b>	F
<b>NEMA-NOM-EFF</b>	84
<b>PF</b>	73
<b>RATING</b>	40C AMB-CONT
<b>CC</b>	USABLE AT 208V 2.48
<b>DE</b>	6205
<b>ODE</b>	6203
<b>ENCL</b>	TENV
<b>SN</b>	

Parts List		
Part Number	Description	Quantity
SA166097	SA 35E010P667G1	1.000 EA
RA154478	RA 35E010P667G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122F00	MASTER ODE,203 BRG,#26 DRN	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP2116L	ALUM SUPER-E UL CSA CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 35651

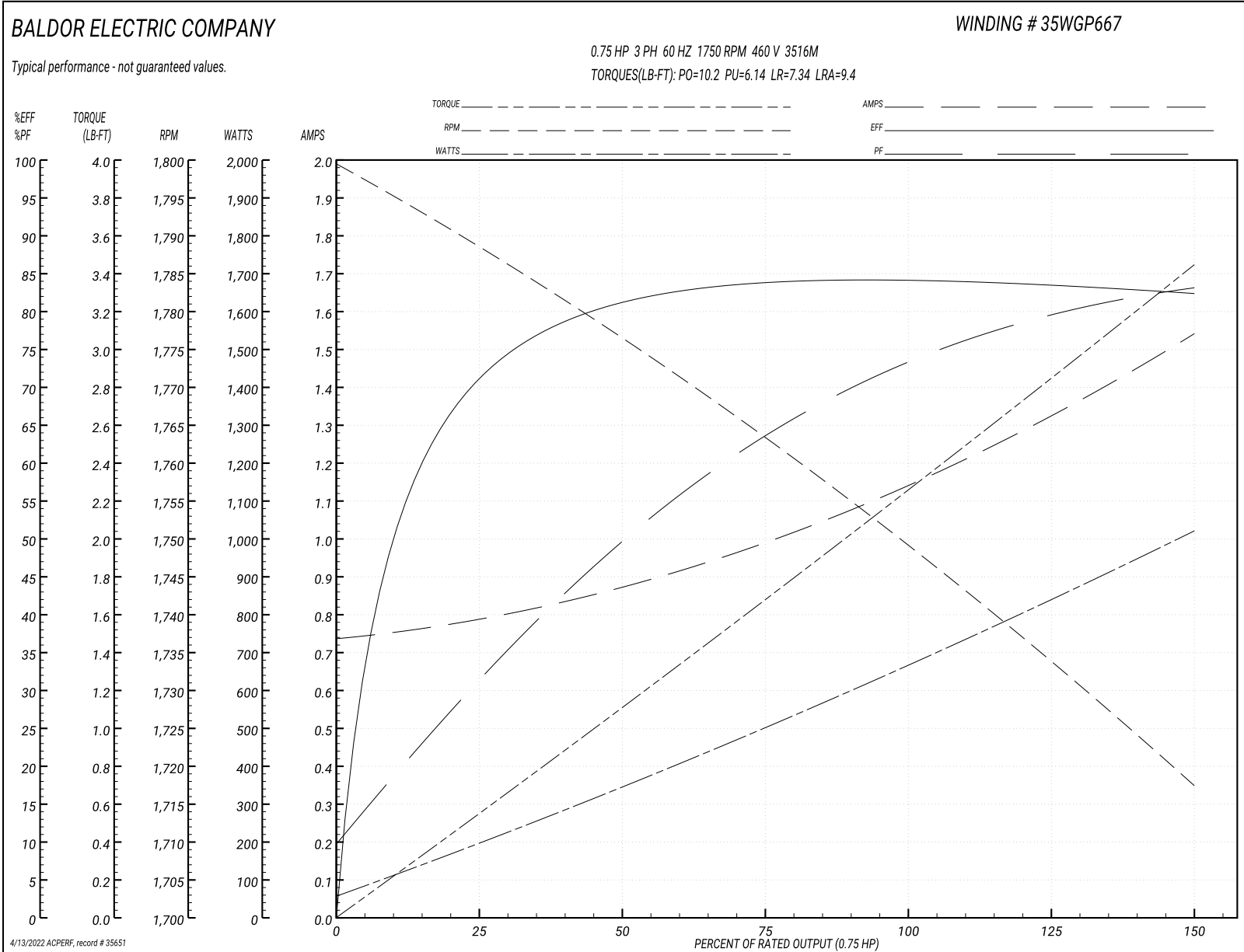
Typical performance - not guaranteed values

Winding: 35WGP667-R003			Type: 3516M	Enclosure: TENV	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	.75		Full Load Torque	2.22 LB-FT	
Volts	230/460		Start Configuration	direct on line	
Full Load Amps	2.28/1.14		Breakdown Torque	10.2 LB-FT	
R.P.M.	1750		Pull-up Torque	6.14 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	7.34 LB-FT	
NEMA Design Code	B KVA Code	M	Starting Current	9.4 A	
Service Factor (S.F.)	1.15		No-load Current	0.743 A	
NEMA Nom. Eff.	84 Power Factor	73	Line-line Res. @ 25°C	22.3 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	55°C	
S.F. Amps			Temp. Rise @ S.F. Load	63°C	
			Locked-rotor Power Factor	64.8	
			Rotor inertia	0.0946 lb-ft <sup>2</sup>	

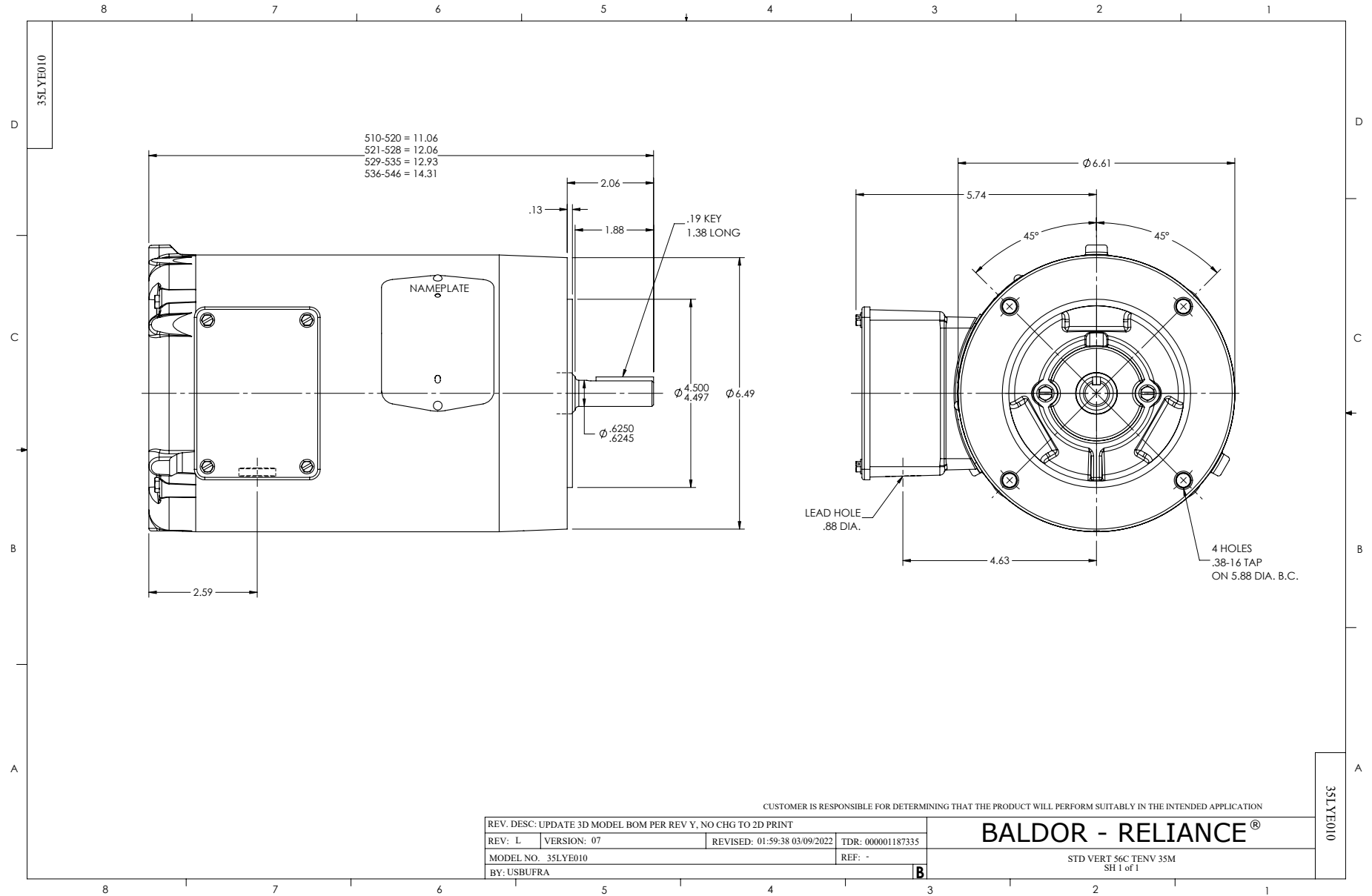
**Load Characteristics 460 V, 60 Hz, 0.75 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	49	63	72	79	84	76
Efficiency	69.5	80.4	83.8	84.3	84.1	82.1	84.4
Speed	1790	1777	1763	1750	1735	1717	1744
Line amperes	0.778	0.863	0.986	1.14	1.32	1.54	1.25

Performance Graph at 460V, 60Hz, 0.75HP Typical performance - Not guaranteed values







CD0005

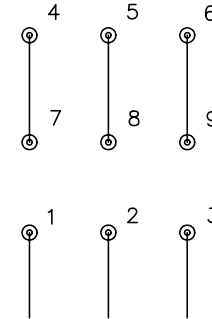


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005